

Corrigé de l'exercice 1

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{10}{40} + \frac{4}{5}$$

$$A = \frac{10}{40} + \frac{4 \times 8}{5 \times 8}$$

$$A = \frac{10}{40} + \frac{32}{40}$$

$$A = \frac{42}{40}$$

$$A = \frac{21 \times 2}{20 \times 2}$$

$$A = \frac{21}{20}$$

$$\blacktriangleright 2. B = \frac{9}{90} + \frac{5}{10}$$

$$B = \frac{9}{90} + \frac{5 \times 9}{10 \times 9}$$

$$B = \frac{9}{90} + \frac{45}{90}$$

$$B = \frac{54}{90}$$

$$B = \frac{3 \times \cancel{18}}{5 \times \cancel{18}}$$

$$B = \frac{3}{5}$$

$$\blacktriangleright 3. C = \frac{6}{5} - \frac{4}{5}$$

$$C = \frac{2}{5}$$

$$\blacktriangleright 4. D = 1 - \frac{4}{8}$$

$$D = \frac{1 \times 8}{1 \times 8} - \frac{4}{8}$$

$$D = \frac{8}{8} - \frac{4}{8}$$

$$D = \frac{4}{8}$$

$$D = \frac{1 \times \cancel{4}}{2 \times \cancel{4}}$$

$$D = \frac{1}{2}$$

$$\blacktriangleright 5. E = \frac{5}{5} + 2$$

$$E = \frac{5}{5} + \frac{2 \times 5}{1 \times 5}$$

$$E = \frac{5}{5} + \frac{10}{5}$$

$$E = \frac{15}{5}$$

$$E = \frac{3 \times \cancel{5}}{1 \times \cancel{5}}$$

$$E = 3$$

$$\blacktriangleright 6. F = \frac{1}{3} + 10$$

$$F = \frac{1}{3} + \frac{10 \times 3}{1 \times 3}$$

$$F = \frac{1}{3} + \frac{30}{3}$$

$$F = \frac{31}{3}$$

$$\blacktriangleright 7. G = \frac{2}{40} + \frac{6}{10}$$

$$G = \frac{2}{40} + \frac{6 \times 4}{10 \times 4}$$

$$G = \frac{2}{40} + \frac{24}{40}$$

$$G = \frac{26}{40}$$

$$G = \frac{13 \times 2}{20 \times 2}$$

$$G = \frac{13}{20}$$

$$\blacktriangleright 8. H = \frac{3}{5} + 1$$

$$H = \frac{3}{5} + \frac{1 \times 5}{1 \times 5}$$

$$H = \frac{3}{5} + \frac{5}{5}$$

$$H = \frac{8}{5}$$

Corrigé de l'exercice 2

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{1}{100} + \frac{9}{10}$$

$$A = \frac{1}{100} + \frac{9 \times 10}{10 \times 10}$$

$$A = \frac{1}{100} + \frac{90}{100}$$

$$A = \frac{91}{100}$$

$$\blacktriangleright 2. B = \frac{7}{4} - 1$$

$$B = \frac{7}{4} - \frac{1 \times 4}{1 \times 4}$$

$$B = \frac{7}{4} - \frac{4}{4}$$

$$B = \frac{3}{4}$$

$$\blacktriangleright 3. C = \frac{9}{8} - \frac{3}{8}$$

$$C = \frac{6}{8}$$

$$C = \frac{3 \times 2}{4 \times 2}$$

$$C = \frac{3}{4}$$

$$\blacktriangleright 4. D = 7 - \frac{1}{7}$$

$$D = \frac{7 \times 7}{1 \times 7} - \frac{1}{7}$$

$$D = \frac{49}{7} - \frac{1}{7}$$

$$D = \frac{48}{7}$$

$$\blacktriangleright 5. E = \frac{6}{6} - 1$$

$$E = \frac{6}{6} - \frac{1 \times 6}{1 \times 6}$$

$$E = \frac{6}{6} - \frac{6}{6}$$

$$E = 0$$

$$\blacktriangleright 6. F = \frac{10}{6} - \frac{1}{48}$$

$$F = \frac{10 \times 8}{6 \times 8} - \frac{1}{48}$$

$$F = \frac{80}{48} - \frac{1}{48}$$

$$F = \frac{79}{48}$$

$$\blacktriangleright 7. G = \frac{8}{15} + \frac{8}{3}$$

$$G = \frac{8}{15} + \frac{8 \times 5}{3 \times 5}$$

$$G = \frac{8}{15} + \frac{40}{15}$$

$$G = \frac{48}{15}$$

$$G = \frac{16 \times 3}{5 \times 3}$$

$$G = \frac{16}{5}$$

$$\blacktriangleright 8. H = 7 - \frac{9}{4}$$

$$H = \frac{7 \times 4}{1 \times 4} - \frac{9}{4}$$

$$H = \frac{28}{4} - \frac{9}{4}$$

$$H = \frac{19}{4}$$

Corrigé de l'exercice 3

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{5}{8} + \frac{6}{8}$$

$$A = \frac{11}{8}$$

$$\blacktriangleright 2. B = \frac{1}{54} - \frac{5}{6}$$

$$B = \frac{1}{54} - \frac{5 \times 9}{6 \times 9}$$

$$B = \frac{1}{54} - \frac{45}{54}$$

$$B = \frac{-44}{54}$$

$$B = \frac{-22 \times 2}{27 \times 2}$$

$$B = \frac{-22}{27}$$

$$\blacktriangleright 3. C = \frac{6}{10} + 1$$

$$C = \frac{6}{10} + \frac{1 \times 10}{1 \times 10}$$

$$C = \frac{6}{10} + \frac{10}{10}$$

$$C = \frac{16}{10}$$

$$C = \frac{8 \times 2}{5 \times 2}$$

$$C = \frac{8}{5}$$

$$\blacktriangleright 4. D = \frac{5}{70} - \frac{6}{7}$$

$$D = \frac{5}{70} - \frac{6 \times 10}{7 \times 10}$$

$$D = \frac{5}{70} - \frac{60}{70}$$

$$D = \frac{-55}{70}$$

$$D = \frac{-11 \times 5}{14 \times 5}$$

$$D = \frac{-11}{14}$$

$$\blacktriangleright 5. E = 7 - \frac{5}{3}$$

$$E = \frac{7 \times 3}{1 \times 3} - \frac{5}{3}$$

$$E = \frac{21}{3} - \frac{5}{3}$$

$$E = \frac{16}{3}$$

$$\blacktriangleright 6. F = \frac{7}{7} - 1$$

$$F = \frac{7}{7} - \frac{1 \times 7}{1 \times 7}$$

$$F = \frac{7}{7} - \frac{7}{7}$$

$$F = 0$$

$$\blacktriangleright 7. G = \frac{10}{6} - \frac{5}{12}$$

$$G = \frac{10 \times 2}{6 \times 2} - \frac{5}{12}$$

$$G = \frac{20}{12} - \frac{5}{12}$$

$$G = \frac{15}{12}$$

$$G = \frac{5 \times 3}{4 \times 3}$$

$$G = \frac{5}{4}$$

$$\blacktriangleright 8. H = \frac{9}{5} + 9$$

$$H = \frac{9}{5} + \frac{9 \times 5}{1 \times 5}$$

$$H = \frac{9}{5} + \frac{45}{5}$$

$$H = \frac{54}{5}$$

Corrigé de l'exercice 4

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{9}{27} - \frac{2}{3}$$

$$A = \frac{9}{27} - \frac{2 \times 9}{3 \times 9}$$

$$A = \frac{9}{27} - \frac{18}{27}$$

$$A = \frac{-9}{27}$$

$$A = \frac{-1 \times 9}{3 \times 9}$$

$$A = \frac{-1}{3}$$

$$\blacktriangleright 2. B = \frac{1}{25} - \frac{3}{5}$$

$$B = \frac{1}{25} - \frac{3 \times 5}{5 \times 5}$$

$$B = \frac{1}{25} - \frac{15}{25}$$

$$B = \frac{-14}{25}$$

$$\blacktriangleright 3. C = \frac{8}{4} - 1$$

$$C = \frac{8}{4} - \frac{1 \times 4}{1 \times 4}$$

$$C = \frac{8}{4} - \frac{4}{4}$$

$$C = \frac{4}{4}$$

$$C = 1$$

$$\blacktriangleright 4. D = \frac{9}{7} - \frac{8}{49}$$

$$D = \frac{9 \times 7}{7 \times 7} - \frac{8}{49}$$

$$D = \frac{63}{49} - \frac{8}{49}$$

$$D = \frac{55}{49}$$

$$\blacktriangleright 5. E = 6 - \frac{2}{4}$$

$$E = \frac{6 \times 4}{1 \times 4} - \frac{2}{4}$$

$$E = \frac{24}{4} - \frac{2}{4}$$

$$E = \frac{22}{4}$$

$$E = \frac{11 \times 2}{2 \times 2}$$

$$E = \frac{11}{2}$$

$$\blacktriangleright 6. F = 2 - \frac{7}{6}$$

$$F = \frac{2 \times 6}{1 \times 6} - \frac{7}{6}$$

$$F = \frac{12}{6} - \frac{7}{6}$$

$$F = \frac{5}{6}$$

$$\blacktriangleright 7. G = \frac{1}{2} + \frac{9}{2}$$

$$G = \frac{10}{2}$$

$$G = \frac{5 \times 2}{1 \times 2}$$

$$G = 5$$

$$\blacktriangleright 8. H = 1 - \frac{1}{8}$$

$$H = \frac{1 \times 8}{1 \times 8} - \frac{1}{8}$$

$$H = \frac{8}{8} - \frac{1}{8}$$

$$H = \frac{7}{8}$$

Corrigé de l'exercice 5

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{2}{8} + 1$$

$$A = \frac{2}{8} + \frac{1 \times 8}{1 \times 8}$$

$$A = \frac{2}{8} + \frac{8}{8}$$

$$A = \frac{10}{8}$$

$$A = \frac{5 \times 2}{4 \times 2}$$

$$A = \frac{5}{4}$$

$$\blacktriangleright 2. B = \frac{7}{2} + 7$$

$$B = \frac{7}{2} + \frac{7 \times 2}{1 \times 2}$$

$$B = \frac{7}{2} + \frac{14}{2}$$

$$B = \frac{21}{2}$$

$$\blacktriangleright 3. C = \frac{3}{24} + \frac{1}{3}$$

$$C = \frac{3}{24} + \frac{1 \times 8}{3 \times 8}$$

$$C = \frac{3}{24} + \frac{8}{24}$$

$$C = \frac{11}{24}$$

$$\blacktriangleright 4. D = 1 - \frac{3}{6}$$

$$D = \frac{1 \times 6}{1 \times 6} - \frac{3}{6}$$

$$D = \frac{6}{6} - \frac{3}{6}$$

$$D = \frac{3}{6}$$

$$D = \frac{1 \times 3}{2 \times 3}$$

$$D = \frac{1}{2}$$

$$\blacktriangleright 5. E = \frac{9}{4} + \frac{5}{4}$$

$$E = \frac{14}{4}$$

$$E = \frac{7 \times 2}{2 \times 2}$$

$$E = \frac{7}{2}$$

$$\blacktriangleright 6. F = \frac{4}{2} + 4$$

$$F = \frac{4}{2} + \frac{4 \times 2}{1 \times 2}$$

$$F = \frac{4}{2} + \frac{8}{2}$$

$$F = \frac{12}{2}$$

$$F = \frac{6 \times 2}{1 \times 2}$$

$$F = 6$$

$$\blacktriangleright 7. G = \frac{9}{72} + \frac{9}{9}$$

$$G = \frac{9}{72} + \frac{9 \times 8}{9 \times 8}$$

$$G = \frac{9}{72} + \frac{72}{72}$$

$$G = \frac{81}{72}$$

$$G = \frac{\cancel{9} \times 9}{8 \times \cancel{9}}$$

$$G = \frac{9}{8}$$

$$\blacktriangleright 8. H = \frac{4}{90} - \frac{1}{10}$$

$$H = \frac{4}{90} - \frac{1 \times 9}{10 \times 9}$$

$$H = \frac{4}{90} - \frac{9}{90}$$

$$H = \frac{-5}{90}$$

$$H = \frac{-1 \times \cancel{9}}{18 \times \cancel{9}}$$

$$H = \frac{-1}{18}$$

Corrigé de l'exercice 6

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = 9 - \frac{1}{5}$$

$$A = \frac{9 \times 5}{1 \times 5} - \frac{1}{5}$$

$$A = \frac{45}{5} - \frac{1}{5}$$

$$A = \frac{44}{5}$$

$$\blacktriangleright 2. B = \frac{8}{2} - \frac{2}{2}$$

$$B = \frac{6}{2}$$

$$B = \frac{3 \times 2}{1 \times 2}$$

$$B = 3$$

$$\blacktriangleright 3. C = \frac{9}{18} + \frac{4}{2}$$

$$C = \frac{9}{18} + \frac{4 \times 9}{2 \times 9}$$

$$C = \frac{9}{18} + \frac{36}{18}$$

$$C = \frac{45}{18}$$

$$C = \frac{5 \times 9}{2 \times 9}$$

$$C = \frac{5}{2}$$

$$\blacktriangleright 4. D = \frac{6}{3} + 1$$

$$D = \frac{6}{3} + \frac{1 \times 3}{1 \times 3}$$

$$D = \frac{6}{3} + \frac{3}{3}$$

$$D = \frac{9}{3}$$

$$D = \frac{\cancel{3} \times 3}{1 \times \cancel{3}}$$

$$D = 3$$

$$\blacktriangleright 5. E = \frac{6}{6} + \frac{4}{2}$$

$$E = \frac{6}{6} + \frac{4 \times 3}{2 \times 3}$$

$$E = \frac{6}{6} + \frac{12}{6}$$

$$E = \frac{18}{6}$$

$$E = \frac{3 \times 6}{1 \times 6}$$

$$E = 3$$

$$\blacktriangleright 6. F = 7 - \frac{6}{9}$$

$$F = \frac{7 \times 9}{1 \times 9} - \frac{6}{9}$$

$$F = \frac{63}{9} - \frac{6}{9}$$

$$F = \frac{57}{9}$$

$$F = \frac{19 \times 3}{3 \times 3}$$

$$F = \frac{19}{3}$$

$$\blacktriangleright 7. G = \frac{6}{36} + \frac{7}{6}$$

$$G = \frac{6}{36} + \frac{7 \times 6}{6 \times 6}$$

$$G = \frac{6}{36} + \frac{42}{36}$$

$$G = \frac{48}{36}$$

$$G = \frac{4 \times \cancel{12}}{3 \times \cancel{12}}$$

$$G = \frac{4}{3}$$

$$\blacktriangleright 8. H = \frac{3}{3} + 1$$

$$H = \frac{3}{3} + \frac{1 \times 3}{1 \times 3}$$

$$H = \frac{3}{3} + \frac{3}{3}$$

$$H = \frac{6}{3}$$

$$H = \frac{2 \times \cancel{3}}{1 \times \cancel{3}}$$

$$H = 2$$